Elton Xavier Joseph Costa *Fullstack developer*

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Education

BE, Computer Engineering	**Apr 2022 - Present**
Don Bosco College of Engineering **Fatorda, Goa**	CGPA: 7.00
Diploma, Computer Engineering	**Jan 2019 - Mar 2022**
Agnel Polytechnic **Verna, Goa**	CGPA: 8.00

Work Experience

Hexcoderz, Vasco da Gama - Goa (Intern-Frontend Developer)	**Sep 2021 - Nov 2021**
• Developed proficiency in UI/UX fundamentals, Figma, HTML, CSS, and JavaScript.	Project lead

Club Mahindra Resort, Varca Beach - Goa (Intern-Network Engineer)	**Jun 2022 - Jul 2022**
• Administered the Resorts wireless networks for its smooth operation, Configured Access points and switches	Network Administrator

YUVA Website - Goa (Full stack Developer)	**Apr 2024 - May 2024**
• Led the design and development of the website	Project lead
• Designed and integrated a dashboard to manage content on the website, which allowed the admin to modify the content of the webpage	

Projects

Axon- AI enabled learning assistant
- Enables users to submit Study material to generate a quiz of minimum 10 questions, this allows the user to benchmark themselves to know how much they have studied.
- Leveraged GPU Acceleration to speed up response time by 88% (from 50s to 6s)
- Integrated a RAG system, users can ask questions to the document returns with the most likely answer from the documents.
  https://github.com/ryzxxn/Axon

LeafSync- Database manager
- Engineered a SQL database management tool which allowed me to make and view updates to my Database in real time, ensuring a Seamless user experience.
- Achieved efficient CPU usage (0.3%) and optimized RAM usage (30-90MB) for enhanced performance.
- Rendering and state-dependent views loads in an instant (90% faster then something like PhpMyAdmin)
  https://github.com/ryzxxn/LeafSync/

Personal Image Storage (Saas Cloud Image Storage)
- Implemented Images/Gifs storage Service for over 10+ users.
- Unlimited Storage, upload up to 32mb/image enough for 90% of images captured by modern camera devices.
- Extended it Privacy and security by implementing Google Authentication
  https://pis.netlify.app/

Machine learning Digit Classifier (trained a machine learning model to recognize numbers in my handwriting)
- Trained a machine learning model using keras and tensorflow to recognize handwritten digits
  https://ai-nr.netlify.app/

Skills

Programming Languages: C/C++, Javascript, HTML, CSS, Typescript, Python, PHP, SQL, NoSQL, Shell
Concepts: Data Structures and Algorithms, Database Management & Design, System Design, AI/ML, API, Data Analysis and Visualization
Technologies: React, Express, Next.js, Tensorflow, Keras, PyTorch, Three.js, NumPy, Langchain, Flask, Node.js, Websocket, Github, CI/CD, Linux, MongoDB, PostgreSQL, Firebase, React Native, SSH/CLI, Docker, Figma, AWS, LLM, NLP

Achievements

memory-state(State-management npm library)
- Published a npm package in javascript that allows users to Manage, Call, Pass and Clear Memory states that can be used within your application.
- Easy to install by using npm package manager, User friendly syntax.
- Downloaded and used by more than 500 users.
  https://www.npmjs.com/package/memory-state

Project Exhibition
- Runner up for a project exhibition, where we displayed our project evergreen (plant, and essentials e-commerce platform),This netted us the attention of a few founder of startup that we later collaborated on how we could play a crucial role in bridging the gap between clients and suppliers by providing a platform to showcase their trades

Contributed to https://github.com/katanaml/llm-mistral-invoice-cpu
- Added an API to interface with the LLM instead of (Command Line Interface)

Hackathon (24h)
- Participated in a Hackathon at Goa College of Engineering Where I first worked on Axon,This gave me a great perspective on Time management, how to work in a team, Adapt to new technologies and defining clear Goals and working relentlessly to achieve them